

Organometallic Reactions and Catalysis

Organometallic compounds undergo a rich variety of reactions that can sometimes be combined into useful catalytic cycles. In this chapter, we will discuss organometallic reactions of particular importance for synthetic and catalytic processes.

14.1 Reactions Involving Gain or Loss of Ligands

Many reactions of organometallic compounds involve a change in metal coordination number by a gain or loss of ligands. If the oxidation state of the metal is retained, these reactions are considered addition or dissociation reactions; if the metal oxidation state is changed, they are termed oxidative additions or reductive eliminations. In classifying these reactions, it is often necessary to determine oxidation states of the metals; the donor pair method (Chapter 13) can be used.

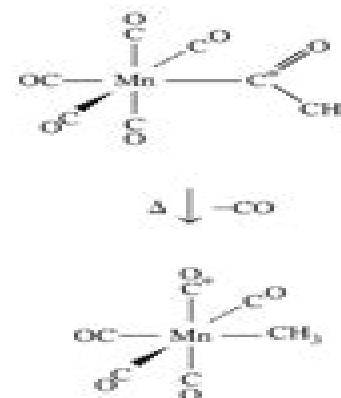
Type of Reaction	Change in Coordination Number	Change in Formal Oxidation State of Metal
Addition	Increase	None
Dissociation	Decrease	None
Oxidative addition	Increase	Increase
Reductive elimination	Decrease	Decrease

We will first consider ligand dissociation reactions. These reactions provide an avenue to replace ligands such as carbon monoxide and phosphines.

14.1.1 Ligand Dissociation and Substitution

CO Dissociation

Chapter 13 introduced carbonyl dissociation reactions, in which CO may be lost thermally or photochemically. Such a reaction may result in rearrangement of the remaining molecule or replacement of CO by another ligand:



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